

Estimate Quotients

Guided Practice



Estimate each quotient. (Examples 1, 3, and 4)

1. $25 \div 4.7 \approx$

2. $40.79 \div 7 \approx$

3. $38.1 \overline{)984.76} \approx$

4. **STEM** The average yearly precipitation for Gulfport, Mississippi, is 65.3 inches. About how much precipitation does the area receive each month? Explain why your answer is reasonable. (Example 2)

5. Mauricio bought 6.75 yards of fabric for a total of \$47.50. About how much was the cost per yard? Explain why your answer is reasonable. (Example 3)

Independent Practice

Estimate each quotient. (Examples 1, 3, and 4)

1. $32.4 \div 3 \approx$

2. $76.2 \div 18.4 \approx$

3. $11.4 \overline{)35.7} \approx$



4. **Financial Literacy** Emily spent a total of \$38.04 on four CDs. If each CD cost the same amount, what is a reasonable amount for the cost of each CD? Explain why your answer is reasonable. (Example 2)

5. A recipe for a smoothie calls for 0.75 pound of strawberries. If Kerry has 3.15 pounds of strawberries, how many batches of the recipe can she make? (Example 3)

Extra Practice

Estimate each quotient.

14. $54 \div 9.4 \approx$

$$9.4 \overline{)54} \rightarrow 9 \overline{)54}^6$$

15. $45.8 \div 23.6 \approx$

16. $23.3 \overline{)119} \approx$

17. The average annual snowfall in King Salmon, Alaska, is 45.9 inches. The snow season lasts about 7 months of the year. About how much snow does the area receive on average each month? Explain why your answer is reasonable.

18. Scientists at the zoo recently studied an anaconda that weighs 8,643.2 ounces. The average weight of the common rat is 11.8 ounces. About how many times heavier is the anaconda than the common rat? Explain why your answer is reasonable.

19. **CCSS** **Justify Conclusions** Aurelia would like to save \$474.72 in a year to purchase a new video camera. She estimates she needs to save \$40 per month. Explain why her estimate is reasonable.

20. A piggy bank containing only quarters has a mass of 850 grams when empty and 7,822 grams when filled. If a quarter weighs 5.6 grams, estimate the amount of money inside the piggy bank.